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A. D. "Appletree" Barnes in 1905.

Catalogue and Price List

OF THE

WAUPACA ARCTIC NURSERY.

"My Canvasser"

Read every word of this carefully. You be your own Agent. Order directly from me and save 10 to 25 per cent. I am a bred, born and raised Horticulturist in Northern Wis. I am over 50 years old. You get my experience free. I am with you and our interests are mutual. My Stock is FRESH, HARDY, ADAPTED and ACCLIMATED. Apple-trees all grafted on crab apple roots.

Correspondence Cordially Solicited.

A. D. "APPLETREE" BARNES,

WAUPACA, WIS.

A. D. Appletree Barnes taking an Order in the Nursery.

Block of 60,000 Three-year-old Appletrees in Waupaca Arctic Nursery.

GREETING.

To My Friends and Patrons:

Read every word and study this pamphlet carefully. Be your own agent. Order EARLY, follow directions and you surely will be successful and shall reap YOUR REWARD.

MY SENTIMENTS:—No flowers, no shrubs, no garden, no fruit; no shade trees, and you have no HOME. Your children will flee from such a house. Have these and they WILL be attached to HOME, and grow up and cherish fond remembrances that time, distance nor surroundings cannot rob or alienate from them.

FRUITS: "God's Elixir of Good Health."

NOTE THIS:—I am growing goods here in Central Northern Wisconsin for Wisconsin plantings and of those varieties and sorts only that are best suited for the Northwest. Remember adaptation and acclimation are the best guarantees for success. My goods bear their own recommendation.

REMEMBER no charges for boxing, bailing, freight, express or postage. The price is NET AT YOUR OFFICE.

All goods replaced at one-half the catalogue price if notified before August 1st after planting, if same have had good care and in cultivated grounds.

MY FAITH IN YOUR HONESTY:—I WILL DELIVER ALL GOODS to your freight or express office PREPAID. (Strawberry plants in small lots by mail,) and give YOU the privilege to unpack and examine them before you pay for them, and if NOT as represented YOU may reject and return them at my expense. What can be fairer? I have the best orchard and most complete nursery in Wisconsin. I cut my scions from bearing trees and graft all appletrees on CRAB apple roots. Hence they are HARDY and will bear fruit very YOUNG. I love horticulture and am a WORKER. I nurse and fondle my BABY trees and want YOU to give them a nursling's care. Every shipment will be accompanied with a certificate of inspection.

DIRECTIONS:—Order all goods (except strawberry and tip raspberry plants) for FALL DELIVERY. If the season, and the ground is in good condition PLANT IN THE FALL, IF NOT SO, bury goods in loose soil and plant early in the spring. Order for spring if you don't like fall delivery. If possible prepare the grounds in early fall and make holes and trenches deep and wide. Use dynamite in the tree pits if the ground is dry, hard or stony, to make a loose root bed. Always use surface soils in planting, with sufficient water to make the earth moist. Cut roots off smooth and fresh. Cut out twigs and shorten in all branches at least one third. Pack earth firmly. Incline tree to south-west with lowest branches on south side. Always mulch early in June. In windy sites and small lots plant trees close together. In protected sites and large fields farther apart, and in all cases closest together north and south, and better still run rows to the WEST of south, and if possible plant orchards in the quin counx form, or broken rows, about 16 feet north and south, by 16 to 24 feet east and west. Never plant NEW trees in old or shady sites, or in grass.

Plant all small fruits and especially strawberries with a clean spade so as to get the benefit of both deep and shallow rooting.

Write your name, postoffice and shipping directions plainly.

Order EARLY. DODN'T DELAY. Send your money by postoffice or express money orders.

REMEMBER I require YOU to plant in cultivated grounds, giving them good cultivation, careful attention, sufficient water and mulching or I WILL NOT replace dead trees.

There is nothing more worthy of a good site, better care and careful attention and that will respond more generously than does a good garden and a thrifty orchard. Therefore be faithful, diligent and painstaking, for it is not HOW MUCH you BUY but how WELL you CARE for what you DO BUY. I am proud of my record and hope yours may some day excel mine, which is Cash Premium, Diploma and

Copper Medal at World's Fair in Chicago for best bushel apples of any kind (sixty N. W. Greenings, ALL perfect and weighed sixty pounds,) Diploma and Bronzed medal at Omaha exposition for meritous exhibition of some twenty-five varieties of apples Gold Medal, (valued at $175.00) and Diploma at Buffalo Pan-American Exposition for BEST individual display of apples. My trees compose the best row in the State trial orchard at Wausau. MY trees were used the past two winters in the State University as MODEL trees for the students in horticulture. My facilities for handling, packing and shipping are most excellent and I promise to be both careful and diligent to observe YOUR WISHES. I am convinced YOU can grow strawberries or some kinds of fruit on every piece of land in Wisconsin that is fit for a home site. Now get yourselves and your families interested. Study the points I make, which include the following: I am of YOU and with YOU, I am here to STAY and to stay in the nursery business. OUR interests are mutual. My goods will be fresh, hardy and adapted and delivered at YOUR STATION at MY expense. No tree strawberries, no seedless grapes nor thornless gooseberries; no ironclad banana appletrees at fabulous prices. But the best goods and put up and delivered in the best possible manner at FAIR, RIGHT and REASONABLE prices.

MY PRIVILEGES:—I desire to and do claim the right to substitute the next size and priced goods when sold out of a size or kind ordered, or to substitute other varieties of as near the same season and quality as 'tis possible to do, and I will hold myself responsible for all trees not true to name so far and to the extent only of replacing any such trees with new ones true to name at my own expense. Kindly order so many trees and plants and let me make the selection of varieties so far as it is possible. Tell me the quality of your soil, altitude and slope, whether the fruits are designed for home use, market or both purposes.

I cannot give a detailed description of everything in a small volume and large catalogues are too expensive.

APPLE AND CRAB TREES, STANDARD SORTS: Select number one trees in every respect, two and three years old from root grafts, four and five feet, well branched, 30c each, $3.00 per dozen, $20.00 per 100; three and four years, stalky, five and six feet, 35c each, $4.00 per dozen, $30.00 per 100.

APPLETREES, standard sorts, earliest named first:

SUMMER: Yellow Transparent, Red Astrachan, Lubs' Queen, Red Wine, Beautiful Arcade, Duchess, etc.

FALL: McMahon, Haas, Snow, Wealthy, Fall Orange, Plum Cider, Okabena and others.

LATE FALL and EARLY WINTER SORTS: Wolf River, Price's Sweet, Patton's Greening, Utter's Red, Pewaukee, Longfield, etc.

LATE WINTER KINDS: Golden Russett, McIntosh Red, Wisconsin Russett, Tallman Sweet, Ben Davis, Gano Anisim, Scott's Winter, Walbridge, Windsor Chief, N. W. Greening and others.

STANDARD CRAB APPLE TREES: Hardy, thrifty, bear young and are good fruit. Transcendant, Hyslop, Whitney, Martha, Virginia, Minnesota, Spitzenburg, Gibb, Briars Sweet, Sweet Russett and many others.

New and rare Wisconsin and other Northern grown seedlings, on which I have spent years and years of time, labor and study in perfecting, and hundreds of dollars in procuring and testing them. I believe they are the BEST trees and sorts that can be produced at this time and should be largely and generously planted, and I especially recommend them for the cold and rigorous Northwest. I guarantee them to be hardy and good fruit and am willing to stake my honor and reputation on them, that they ARE the best and hardiest. I will sell these only in small lots and not to exceed ten of any one kind to one purchaser and at the following prices: 2 yrs., 4 to 5 ft., 50c each, $5.00 per dozen; 3 or 4 yrs., 5 to 6 ft., 75c each, $7.00 per dozen.

ROSE APPLE: Summer, beautiful thrifty tree, and wood as hard as hickory, bears very young and every year; original tree at Weyauwega is over fifty years old and is thrifty and bearing fruit yet. Beautiful mottled rose colored apple, cooks very quickly and makes remarkably fine sauce.

RATZBURG: Fall; a grand good tree and remarkably, fine large dessert apple. The original old seedling tree is the finest apple tree that I know of in Wisconsin, stands near Fremont in its original seed bd, is nearly fifty years old and stands fully thirty-five feet high, bears fine, very large striped apples every year, splashed with pink stripes; good dessert and fair cooking apple.

BERLIN: Originated from seeds of the Duchess at Berlin, some thirty years ago. This is a remarkable, fine and hardy tree. The young trees are beautiful, straight and smooth, bears very young and annually; apples are fair sized, elongated, pinkish green with crimson splashes; fair for cooking. Do not fail to set a half dozen of these.

LINDFIELD: Originated in the town of Lind. Tree and fruit resembles Longfield in color, shape and texture. This is one of the most vigorous and productive appletrees to me known. I have had trees bear at four years of age and trees seven years old have produced three bushels of fine apples. Fairly large apples, yellowish green with reddish cheeks of rich appearance and good quality. No. 1 all around.

BESSIE: Seedling of the Duchess; a more vigorous tree and much better apple. Resembles the Duchess very much but redder and better quality; keeps nicely till October.

GREATER DUCHESS: This is the king of all appletrees; the strongest grower and bears the largest apples every year, yet introduced; will have lots of apples when other fail; apples are about the same shape, color and flavor as the Duchess; very good for culinary purposes, but not for dessert; season, late fall.

EVELYN: This is practically a Baldwin; originated from seeds of the Baldwin planted bv Wm. Brown in Waushara county in 1849, is a grand old tree yet and the young trees are thrifty, stalky and smooth and I consider them very valuable; fruit resembles and equals the Baldwin in every respect and a fine winter apple.

ARTIC APPLE: Originated on the Isle La Motte island in northeastern corner of Vermont. Rapid, thrifty and a symetrical growing tree with straight stalks and strong branches. A remarkable fine nursery and orchard tree. I am delighted with its behavior and the reports I get from it from many other states are very flattering. I have set one hundred trees in my orchard and shall plant more of them. Fruit medium sized, very dark red, conical apple, strong stem, very thick skin, with rich yellowish, fine grained crispy flesh; a fine dessert apple and a remarkably good keeper. I am convinced that this is one of the very best trees for the Northwest and earnestly urge every one to set some of them.

SWEET FAMEUSE. Evidently a seedling of the Fameuse apple; originated at Eureka; old tree is forty years old; most beautiful, red and sweetest apple I ever saw. The king of dessert apples.

RED JACKET: This tree originated from seeds of Canada Red planted by MY ADVICE by Geo. Edgar Tufts in Adams county, Wisconsin, in the fall of 1887 on VERY poor sand in his garden. In the spring of 1890 he transplanted it to a poorer sand ridge on his farm in a very windy and unfavorable site. This tree began fruiting in '95 and has borne a fine crop of apples without fail every season since. In 1901 it bore six bushels. This tree is a remarkable tree and has a character of its own peculiarly adapted to poor sandy soils. It is simply a marvel. Low, stalky and robust, roots deep, dark colored bark and leaves; bears the most beautiful and the darkest red glossy colored apple I ever saw, resembling the old fashioned Gilliflower in shape; flesh, rich yellow, crispy, tart, and a luscious aromatic flavor; equal to the

very best Greening as a dessert apple; the skin is the thickest and strongest I ever saw on an apple, which makes it the king of keepers, and it being a seedling and a Canada apple, covered with this strong, red skin, suggested the name of Red Jacket, which the Waupaca County Horticultural society gave it last January, when a peck of these apples were sampled and eaten at this meeting, and ninety per cent of the members present voted it BETTER THAN THE WEALTHY. This apple was blessed and christened as a child by Rev. Geo. White at this time. I procured this tree in December and with it one-half bushel of apples some of which are in my office today, July 23rd. They are sound and perfect, have never been wrapped in paper nor in cold storage. I transported this tree to my grounds, a distance of seventy-five miles, by wagon, railroad car and sleigh last December at a great expense and planted it where it IS GROWING FINELY now and has a few apples on it. Before moving it I cut stock from which I made 450 root grafts which are now growing finely. SURELY this is the tree for the sandy soils and for a KEEPING apple. I will part with a few of them. Young trees at $1.25 each or three for $3.00, and will sell but one hundred of them the first year.

CHERRIES, PLUMS AND PEARS.

Four to five feet, 50c, $5.00 per dozen.

Five to six feet, 60c, $6.00 per dozen.

Would advise planting these the same distance apart as apple trees, but would always plant three trees in each hole in a triangular form about ten inches apart at the base, leaning each tree outward at the top in opposite directions. This system acts in a triple capacity, aiding in pollen, fertilization, protecting each other against storms and wind, and more particularly against sun scald. Try it. .Plant many plums and cherries. They fruit young, are sure and the fruit is luscious and healthy. Plant few pears and never less than three in ONE pit, and for good results plant one each of the three best kinds in one pit.

CHERRIES: Will ripen in order named: Early Richmond, Montmorincy and English Morrilla. (I planted ninety-nine Early Richmond trees here in my orchard in the spring of 1888; ninety-three of them are in good condition to day and I have had cherries to use every year for fourteen years and have sold more than $1200.00 worth of fruit.

PLUMS: Native varieties, just as hardy and more productive than wild plums; fine fruit and should be liberally planted in every garden; plant in thick groups, three in one pit. Desota, Wyant, Forest, Garden, Rolling Stone, Cheney, Rockford and others. European varieties: Lombard, Green Gage and Purple Egg, etc.; Japan varities: Abundance, Red June and Burbank.

PEARS: Flemish Beauty, Seckel, Keefer, Vermont Beauty, Sheldon, Duchess, Lincoln and others.

RUSSIAN MULBERRY.

This is a splendid fruit as well as a beautiful ornamental tree; hardy, thrifty; clean and symetrical; bears large long black berries, resembling the ordinary blackberry; nice for culinary purposes and table dessert. A few of these trees should be planted in every yard. You will be pleased with them. Single specimens, 75c, three for $2.00, twelve for $7.50. Try at least three of these.

CURRANTS, GRAPES AND GOOSEBERRIES.

No. 1 one year plants, $1.50 per dozen.

No. 1 two year plants, $2.50 per dozen.

Splendid stock; will fruit the second season after planting.

CURRANTS: Cherry, Red Dutch, White Dutch, White Grape, Victoria, Prince Albert, L. B. Holland and Black English.

GRAPES: Black, Concord, Worden, Moore's Early and others. Red; Brighton, Deleware, Massasoit. White; Empire State, Lady, Niagara and others.

EXTRA LARGE SORTS AND NEW VARIETIES: The best and choicest fruits at 35c each, $3.00 per dozen.

CURRANTS: North Star, London Market, Fay's Prolific and

Crandall's Black Tree Currant.

GRAPES: Campbell's Early, McPike and Eaton.

GOOSEBERRIES: Industry and Crown Bob.

RED RASPBERRIES.

These will grow and shift for themselves and bear more fruit than any other fruit plant known They are the lazy man's fruit. Will ripen in order named and as soon as strawberries are gone. 50c per dozen, $3.00 per hundred. Marlboro, Turner and Cuthbert.

LOUDEN'S RED RASPBERRY: This is the largest of all raspberries, strong, thrifty plants, wonderfully productive and large to very large, firm, luscious, will ship as well as blask raspberries. No one will regret planting them. 75c per dozen, $4.00 per 100.

BLACK AND PURPLE RASPBERRIES.

Tip plants, will never sucker up. (For spring delivery only.)

PURPLE VARIETIES: Columbian and Shaffer's Collosal, strong plants and firm, large berries; these are fine. 75c per dozen, $4.00 per 100.

BLACKS: Greggs, Older, Nemaha, Souhegan, Kansas, Mammoth Cluster, etc. 75c per dozen, $4.00 per 100.

BLACKBERRIES: Stone's Hardy, Ancient Britton. 75c per dozen, $4.00 per 100.

STRAWBERRIES.

For Spring Delivery. This is everybody's fruit. Who can estimate the value of strawberries? My plants are strong, vigorous, thrifty and healthy. No blight, rust or fungus diseases. Will be all No. one sets, carefully selected from the best breeding plants procurable, carefully trimmed and put up in moss and burlap, each kind by themselves and plainly labeled. You WILL be delighted with them. They cannot be excelled in the United States for vigor and productiveness; should be planted in groups of three kinds, early, medium and late, staminate and pistillate varieties, and one fair sized, one medium and one large sized sort. Any of the following groups are all right for a plantation.. If you give my plants good care and are NOT pleased with the investment when they bear fruit I will give you the same amount in other goods FREE. Now have STRAWBERRIES, the queen fruits of the garden. The earliest sort named first in each group:

Clyde, Warfield, Gandy.
Lovette, Haverland, Pearl.
Jessie, Sample, Enhance.
Splendid, Dayton, Secore.
Brandywine, Glenn Mary, Parker Earle.
Beder Wood, Nick Ohmer, Goodwin.
Rough Rider, Stoehmer, North Star.
Enormous, Senator Dunlop, Bally.

35c per dozen; $1.00 per 100; $2.50 per 300; $6.00 per M.

PIE PLANTS.

Lenius: Small and early; Queen: medium; Mammoth Wine, very large and vigorous, the best for jellies and wine. 25c each, $2.50 per dozen.

ASPARAGUS ROOTS.

30 cents per dozen; $2.00 per 100. Conover's Collossal, White Spine, etc.

Remember there are many other things in a nursery too numerous to mention. Write for wants, if not quoted.

ORNAMENTAL TREES.

Wisconsin Weeping Willow and Russian Laurel Willow. These TWINS should be planted in every yard. Very easy to grow, beautiful and graceful; fine trees $1.00 each.

Cut Leafed Weeping Birch, Killmarnock Weeping Willow, Weeping Mountain Ash, Weeping Mulberry, Weir's Cut Leafed Weeping Maple. All are beautiful trees, at $2.00 each.

Oak Leafed Mountain Ash, Silver Maples, Horse Chestnuts, Norway Maples, Black Walnuts, Catalpas, European Mountain Ash, etc. $1.00 each; $10.00 per dozen. 7 to 8 feet.

Sugar Maples, Elms, Linden, Butternut, etc. 75c each. 7 to 8 feet.

HEDGE PLANTS.

Arborvitae, Osage Orange, Norway Spruce, Bansakanna Pine, Russian Mulberry, Lilacs and Roses.

1 ft., $1.50 per dozen; $10.00 per 100; 12 to 18 inches, $2.00 per dozen, $12.50 per 100; 18 to 24 inches, $3.00 per dozen, $18.00 per 100.

SHADE TREES.

CAROLINA POPLARS: This is the best, most hardy and most rapid growing tree to me known; will grow in very poor sandy soils and has a particular fondness for sandy loam. I have grown specimens of over eleven feet in one season, but the usual growth is five to seven feet. Stalky, broad topped with very large leaves make this the VERY best quick growing tree that can be planted. No worms, no pests, no cotton seed, never gets dry branches and never suckers up from the roots. Splendid stalky tress, 4 to 6 ft., 25c, $2.50 per dozen, $15.00 per 100; 6 to 8 ft., 35c, $3.00 per dozen, $20.00 per 100; 8 to 10 ft., 50c, $5.00 per dozen, $35.00 per 100; 10 to 12 ft., 75c, $7.00 per dozen, $50.00 per 100.

BOX ELDERS and SOFT MAPLES, grown from seeds and carefully cultivated in nursery. 6 to 7 ft,, at 25c, $2.50 per dozen, $15.00 per 100; 7 to 8 ft., at 35c, $3.00 per dozen, $20.00 per 100; 8 to 9 ft., at 50c, $5.00 per dozen, $30.00 per 100.

EVERGREENS: The following common sorts at the following very low prices. Norway Spruce, Balsam Fir, White, Scotch and Norway Pine, 1 ft., 20c; 2 ft., 30c; 3 ft., 40c; 4 ft.,. 50c.

SPECIAL SORTS: These are beauties grown from seeds and small trees transplanted, all at 25c per ft. in height; sheared heads at 50c per ft. up to 4 ft. Colorado Blue Spruce, Douglas Blue Spruce, Black Hills Spruce, White Spruce, Red Cedars, White Cedars, Balsam Fir.

FOREST SEEDLINGS.

Jack Pine, White Pine, Norway Spruce, Balsam Fir; fine stock. 1 to 2 ft., $1.00 per dozen, $5.00 per 100; 2 to 3 ft., $2.00 per dozen, $10.00 per 100.

FLOWERS.

Sunbeams from Heaven, everybody loves them. What is home without a mother? What is a lawn without flowers? Like flowers; like child.

CLIMBING ROSES, including Crimson, White, Pink and Yellow Rambler, Prairie Queen, Seven Sisters and Baltimore Belle. Hardy, upright sorts all grown out doors and should be planted in garden and carefully cultivated in summer, laid down and covered in winter.

Lord Ragland, American Beauty, Anna De Deisbach, M. P. Wilder, La France, Gen. Jaquimenot, M. De Roham and many others, including all the hardy Moss roses. Persian and Harrison's Yellow, etc., 50c each, collection of 12 for $5.00.

HARDY SHRUBS.

Snowball, Tarcarian, Honeysuckle, White and Pink Flowering. Almonds, Syringia, Spireah, Duetzia Hydaranga Grandiflora, Rosea Wegelia, (in seven colors), Golden Alder, Bechtel's Flowering Crab, etc. 75c each; collection of 12 for $7.00. White, Persian, and Purple Lilacs, 25c each.

CLIMBING SHRUBS AND PLANTS.

Clematis, purple and white sorts, Climbing Honeysuckles, Dutchman's Pipe, Ivys, Virginia Creepers, Woodbine, Wistarias, etc. 50c each; $5.00 per dozen.

DAHLIAS and PEONIES, in all sorts and colors. These are simply magnificent and should be extensively planted. They are a halo of glory in colors and no artist can paint them. 25c each, $2.50 per doz.

GLADIOLAS, in assortment, 75c per dozen.

CHINESE GOLDEN GLOW: Will grow and blossom for one hundred years. Single set, 25c; large cluster, 50c.

A. D. Appletree Bar

A. D. Appletre

A. D. Appletree Barnes' Nursery and Orchard.

A. D. Appletree Barnes' Residence.

SPECIAL.

SEED POTATOES: Of all industries in Wisconsin it WILL PAY YOU BEST to change your seed stock. Remember seed potatoes degenerate faster than any other seed stock planted from the fact that we cut them in SMALL PIECES, thereby curtailing energy, character and productiveness. Hence YOU MUST SEE the NECESSITY of securing new seed from seed balls and transporting of old sorts into NEW surroundings and soils. Even an exchange of fifty miles will MORE than pay double the expense, and the plantings of NEW sorts, while in their full energy and vigor will pay from two to ten fold. Remember Waupaca is the potato center of the great West. In this industry we excel the whole universe and our stock commands the top price in all the great markets, BECAUSE WE have made potato growing a great study. By procuring OUR seed you get our knowledge and expense free. Do not fail to procure new sorts and start aright.

NEW SORTS: Per peck, 75c, per bushel, $2.00. Extra Early Round White, Snowball, Early Pingree, Early Bovee and Six Weeks, Pink and Purple Sorts, Stray Beauty, Pink Beauty.

MEDIUM SORTS: Round White, McKinley, Vigorosa, Gold Dust, Dusty Rural.

OVAL OR LONG SORTS: White: Steel's Seedling, Rye Loaf; Flesh colored: Barnabas, Belle, Steel's Red, etc.

STANDARD SORTS: 50c per peck; $1.50 per bushel; $3.00 per barrel.

OVAL OR ROUND SORTS: White: Carman No. 1, Rural New Yorker, Carman No. 3, Sir Walter Raleigh; Flesh colored, Pat's Choice, Michigan Belle, Mr. Dulin.

LONG SORTS: Scotch Regents, North Star, Washington, Burbank, and others.

SPECIAL.

Carolina Poplar cuttings, 9 inches, $1.00 per 100; $5.00 per M.

Currant Cuttings, $1.50 per 100; $7.00 per M.

Box Elder seeds, 50c per pound.

Apple and Crab root grafts, not less than 25 of one sort, all grafted on crab apple roots. Orders booked not later than March 1st, but prefer orders before January 1st. $1.50 per 100; $10.00 per M.

Bearing sized apple and plum trees, according to size and age from one to five dollars each.

All kinds of small fruits, cherries, plums and apples in their season.

Jack Pine Seedlings for western or prairie plantings for wind-breaks or timber belts. Nicely packed; not less than 100 in one order.

6 to 8 inches	$ 1.00	per 100	$ 5.00	per 1,000
8 to 12 "	1.50	per 100	$ 7.50	per 1,000
12 to 18 "	$ 2.00	per 100	$ 10.00	per 1,000

☞ Correspondance cordially solicited. Let's get acquainted. Our interests ARE mutual. My goods WILL please YOU. They GROW and stand the climate. WILL bear FRUIT when OTHERS FAIL.

WANTED.

Good Salesman, Good Greenhouse man, Market Gardner and several men who will be careful and painstaking in the nursery at fair prices.

Cordially,

A. D. "APPLETREE" BARNES.

Planting of Trees and Shrubs.

Many thousands of trees and plants are set out every year in this state; some live, many die.

In some cases the nurseryman is at fault. He may send out dead or weakened stock. Sometimes the railroads delay shipments until the trees are injured beyond recovery. More often the planter is at fault. The trees may arrive in good condition but in the rush of spring work the bundle is laid aside until a convenient time arrives to plant, or the trees may be improperly planted.

Trees and plants in small lots are packed in bundles at the nursery. If the work is well done the roots should be packed in damp moss or excelsior and this covered with burlap. The tops should also be completely covered either with rye straw or burlap. This packing is usually sufficient to protect the plants from drying until they have arrived at their destination, but is not intended to preserve them longer.

Never under any circumstances leave the trees in the shipping package, even over night. If possible plant at once, otherwise open the bundle and "heel-in" the trees or plants.

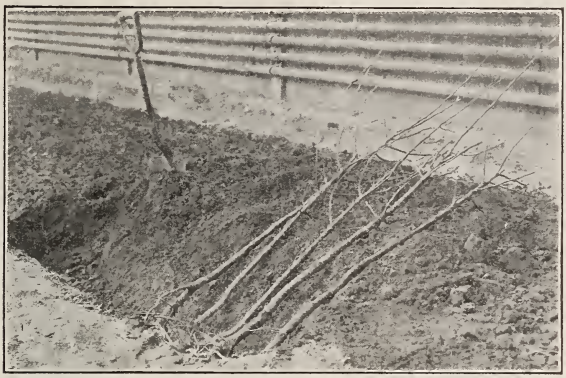

Fig. 1. Showing method of "heeling-in" trees when planting is delayed,

For heeling-in over winter cover the roots 12 to 18 inches, tops a little out of the ground.

"Heeling-in" is temporary planting. To do this dig a trench wide and deep enough to accommodate the roots with one side sloping as shown in Fig. 1.

Open the bundle, lay the trees separately in the trench with tops resting on sloping banks. Cover the roots with moist earth sifting it well among the roots. Tramp firmly and when the trench is filled cover again with one inch of loose earth. The heeling-in spot should be on well drained ground. Treated in this manner trees may remain for several days or even weeks if in a shaded and cool place. The same applies to bushes and even strawberry plants. If trees are shrivelled when received bend down the tops after heeling-in and cover them with moist earth. Often in two or three days they will be found to be plump and fresh.

Hints on Planting.

The ground should be deeply plowed and well cultivated before planting. Do not set out a young orchard in sod. The grass roots will reach out and rob the trees of food and water. If you cannot devote a piece of land to trees alone and keep it in cultivation, do not attempt fruit growing as the results will be disappointing.

Dig holes large enough to accommodate the roots after these have been cut back to sound wood. Fit the holes to the roots, not the roots to the holes. Trim broken and crushed roots back to sound wood. Do not cut off more. The tree was deprived of about seven-tenths of its roots when dug. It will need all that remains. Don't worry about the fine, fibrous roots about which so much has been written,—these are dead anyway if the tree has been out of the ground more than an hour, —take care of the larger roots for it is from these that growth starts.

Protect the roots from the sun and wind every moment from the time the bundle is opened until the tree is set. When in the field planting throw a wet burlap or grain sack over the roots.

The hole should be deep enough to admit setting the tree about two inches deeper than it stood in the nursery. Get down on your knees. It is difficult if not impossible to plant a tree while standing upright. Spread out the roots and sift fine earth about the roots and pack firmly, at first with the fingers and when the roots are out of sight get up and tramp firmly with the feet. If the earth is moist and mellow, it cannot be tramped too firmly. It must be in close contact with the roots in order to enable them to take up the water it contains.

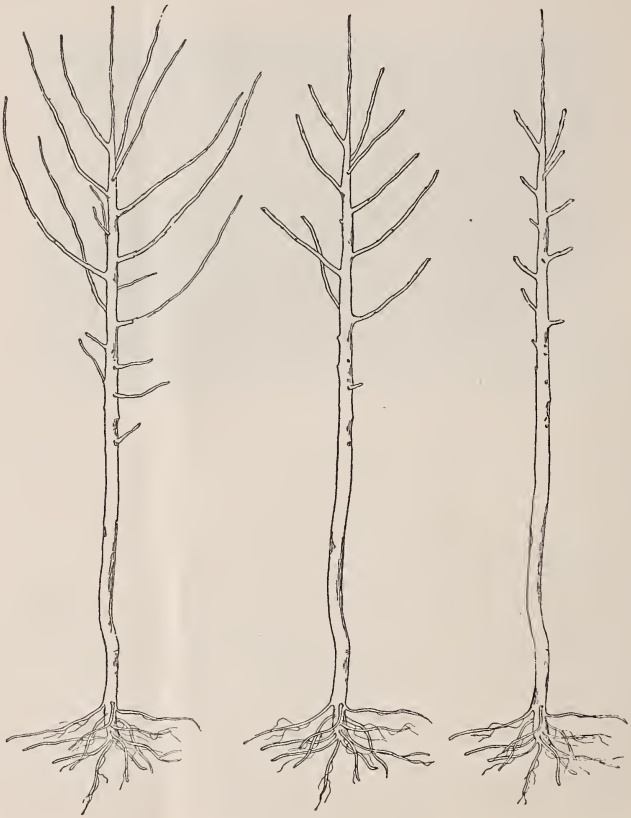

Fig. 2. Showing method of cutting back trees at planting time.

Beginning at left, No. 1 unpruned; No. 2 pruned sufficiently if the tree is well planted in moist grouud; No. 3 showing extent of pruning necessary for weakened trees and trees set in dry weather.

Pruning.

The tree is now safely anchored in the ground but the work is not finished. At this point arises a very common cause of failure. Some of the branches must be removed or the tree is apt to perish.

Before removal from the nursery the tree had sufficient roots to supply all of its buds with water. In digging, most of the roots have been (necessarily) removed, but the buds are left. When growth begins every healthy bud will push out and call on the roots for water to feed its new-born leaves. The very limited supply that the reduced root system can pump up will be distributed equally and as a result none may have enough to develop its leaves and without leaves the tree must perish. We must, therefore, reduce the number of these water pumps by removing one-fourth to one-half the buds. An illustration of the method of doing it is shown in Fig. 2.

The drier the ground and the weather the more we should cut off.

The manner in which the cutting is done will depend to a great extent upon the kind of tree or bush. In apples, plums, etc., we need to bear in mind the ultimate shape of the tree. The framework upon which the branch system is built is determined largely at this time. Remove crowding, crossing, and interfering branches. Aim to leave the main branches spirally about the stem rather than opposite. The lower opposite branches in fruit trees form bad forks that may split down later.

Mulching.

The work is still unfinished unless the tree is mulched. This mulching may be done with the hoe or cultivator, stirring the soil frequently

Another way is to put plenty of strawy manure or straw about the tree. Trees may be well planted and yet die if not mulched. It is a good plan to protect the trunk from sun and wind.

---*F. CRANEFIELD, Sec. Wis. State Horti. Society.*

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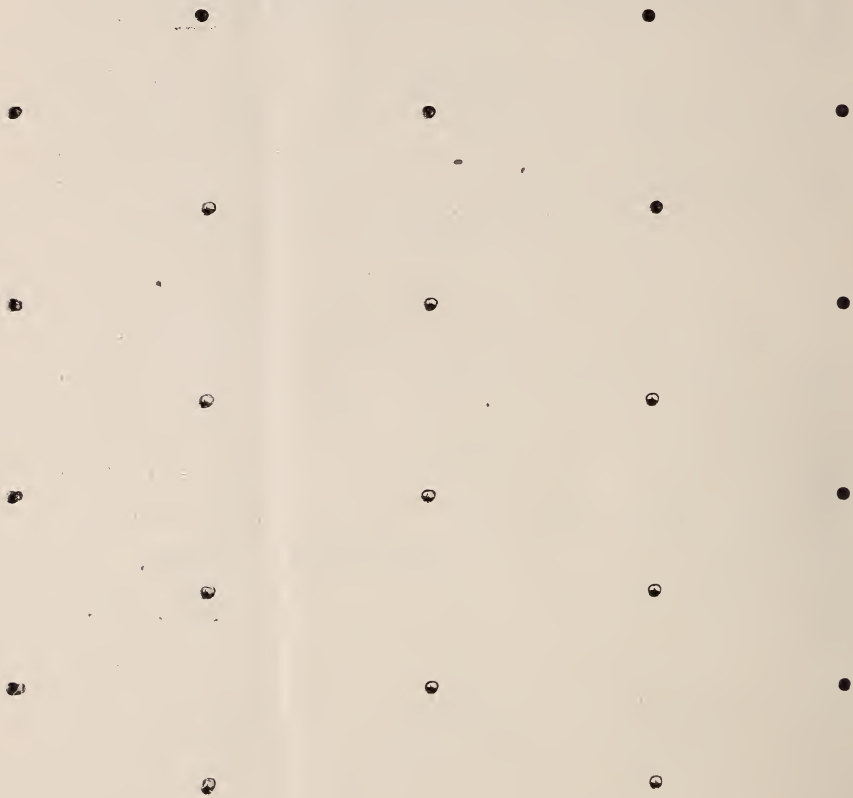
North



South

Diagram for an apple orchard—Quin Counx form, 14 ft. north and south by 21 ft. east and west.

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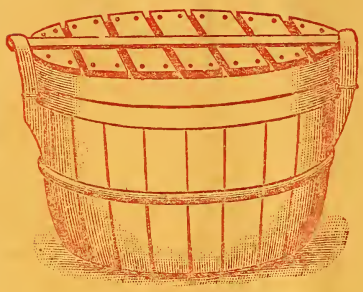

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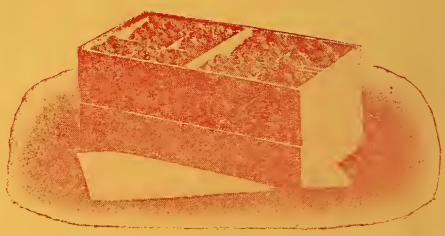

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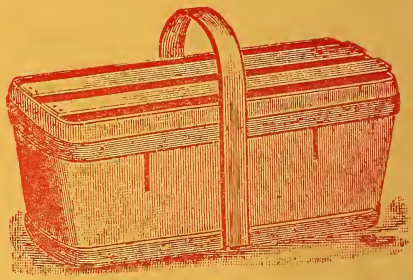

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